

2004 Approved Virginia School Bus Type Specifications

Listed below are the approved 2004 Virginia School Bus Type Specifications for 2004. These specifications were developed after a great deal of research by the Specifications Committee, comments from school divisions during the posting period on our Website, and from input from our manufacturers and vendors.

The Virginia Department of Education appreciates all of the response from the school divisions and the public during the comment period in September. The Virginia Department of Education, Pupil Transportation Services is currently in the process of responding to all of the written comments submitted during the comment period.

These specifications were designed to provide Virginia School Bus fleets with the *safest* configurations available. The summary letter that was included with the proposed specifications in September stated that DOE would like to move away from the current handbrake system being used in conventional buses with Hydraulic Brakes. Only a few of the comment letters from school divisions addressed this specific issue, and after researching our options, the Allison 2400 Automatic Transmission was authorized for use on 64 passenger buses with Hydraulic Brakes. Our manufacturers have informed DOE that an alternative emergency brake system to the current handbrake system may be available as early as next year. Until then, the Allison 2400 is the only authorized transmission to use with Hydraulic Brakes on new bus purchases. DOE will look at this again next year and make any changes that are deemed necessary. DOE and the Specifications Committee will begin reviewing the Specifications for 2005 in May 2004.

NOTICE

These Specifications define certain, but not all, components required on school bus chassis purchased by public school divisions. The requirements for chassis are contained in *Regulations Governing Pupil Transportation Including Minimum Standards for School Buses in Virginia*. Copies of the regulations and standards can be reviewed at the chassis manufacturer's zone/district office or at the office of the local superintendent of schools.

Any variation from the specifications, in the form of additional equipment or changes in style of equipment, without prior approval of the Pupil Transportation Service, Department of Education, is prohibited.

The responsibility for compliance with these school bus specifications rests with dealers and manufacturers. If any dealers or manufacturers sell school bus vehicles that do not conform to any or all of these specifications, a general notice will be sent to all school divisions advising that equipment supplied by such dealer or manufacturer will be disapproved for school transportation until further notice. A copy of the notice will be sent to the dealer or manufacturer and will remain in effect until full compliance by the dealer or manufacturer is assured.

MINIMUM SPECIFICATIONS FOR 2004 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF VIRGINIA STATE BOARD OF
EDUCATION

TYPE “C” 34 PASSENGER CONVENTIONAL

<u>GVWR</u>	21,000
<u>WHEELS</u>	8-STUD DISC – 22.5” X 6.75”
<u>TIRES</u>	9R22.5 – 12 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	6,000 LB.
<u>REAR AXLE</u>	15,000 LB.
<u>BRAKES</u>	HYDRAULIC DISC W/ABS (ALLISON 2400 ONLY) – OR -FULL AIR – 13.2 CFM COMPRESSOR – AIR DRYER (5 SPEED DIRECT OR ALLISON 2000 ONLY)
<u>SUSPENSION</u>	FRT. SPRINGS 3,000 LB. EA. @ GRD. REAR SPRINGS 7,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	175 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	5 SPEED DIRECT, ALLISON 2400, OR ALLISON 2000, SEE BRAKES FOR AUTHORIZED CONFIGURATIONS.
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	35 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QUART – PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK - -BALANCE YELLOW

MINIMUM SPECIFICATIONS FOR 2004 SCHOOL BUS CHASSIS
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TYPE “D” 42 PASSENGER ENGINE FRONT

<u>GVWR</u>	27,800
<u>WHEELS</u>	10-STUD DISC – 22.5” X 7.5”
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	10,800 LB.
<u>REAR AXLE</u>	17,000 LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5” X 5” FRT– 16.5” X 7” REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 5,400 LB. EA. @ GRD. REAR SPRINGS 8,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	175 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON 2000
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	35 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK - -BALANCE YELLOW

MINIMUM SPECIFICATIONS FOR 2004 SCHOOL BUS CHASSIS
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TYPE “C” 52 PASSENGER CONVENTIONAL

<u>GVWR</u>	25,000
<u>WHEELS</u>	8-STUD DISC – 22.5” X 6.75”
<u>TIRES</u>	9R22.5 – 12 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	8,000 LB.
<u>REAR AXLE</u>	17,000 LB.
<u>BRAKES</u>	HYDRAULIC DISC W/ABS (ALLISON 2400 ONLY) – OR -FULL AIR – 13.2 CFM COMPRESSOR – AIR DRYER (5 SPEED DIRECT OR ALLISON 2000 ONLY)
<u>SUSPENSION</u>	FRT. SPRINGS 4,000 LB. EA. @ GRD. REAR SPRINGS 8,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	175 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	5 SPEED DIRECT, ALLISON 2400, OR ALLISON 2000, SEE BRAKES FOR AUTHORIZED CONFIGURATIONS.
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	35 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK - -BALANCE YELLOW

MINIMUM SPECIFICATIONS FOR 2004 SCHOOL BUS CHASSIS
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TYPE “D” 54 PASSENGER ENGINE FRONT

<u>GVWR</u>	27,800
<u>WHEELS</u>	10-STUD DISC – 22.5” X 7.5”
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	10,800 LB.
<u>REAR AXLE</u>	17,000 LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5” X 5” FRT– 16.5” X 7” REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 5,400 LB. EA. @ GRD. REAR SPRINGS 8,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	175 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON 2000
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	35 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK - -BALANCE YELLOW

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TYPE “C” 64 PASSENGER CONVENTIONAL
AIR BRAKE

<u>GVWR</u>	27,500
<u>WHEELS</u>	10-STUD DISC – 22.5” X 7.5”
<u>TIRES</u>	10R22.5 – 12 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	10,000 LB.
<u>REAR AXLE</u>	17,500LB.
<u>BRAKES</u>	FULL AIR – 13.2 CFM COMPRESSOR – AIR DRYER (5 SPEED DIRECT OR ALLISON 2000 ONLY)
<u>SUSPENSION</u>	FRT. SPRINGS 5,000 LB. EA. @ GRD. REAR SPRINGS 8,750LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	175 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	5 SPEED DIRECT OR ALLISON 2000
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK - -BALANCE YELLOW

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TYPE “C” 64 PASSENGER CONVENTIONAL
HYDRAULIC BRAKE

<u>GVWR</u>	26,000
<u>WHEELS</u>	10-STUD DISC – 22.5” X 7.5”
<u>TIRES</u>	10R22.5 – 12 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	10,000 LB.
<u>REAR AXLE</u>	17,500LB.
<u>BRAKES</u>	HYDRAULIC DISC W/ABS
<u>SUSPENSION</u>	FRT. SPRINGS 5,000 LB. EA. @ GRD. REAR SPRINGS 8,750LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	175 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON 2400
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK - -BALANCE YELLOW

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TYPE “D” 66 PASSENGER ENGINE FRONT

<u>GVWR</u>	29,000
<u>WHEELS</u>	10-STUD DISC – 22.5” X 7.5”
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	12,000 LB.
<u>REAR AXLE</u>	17,000 LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5” X 5” FRT– 16.5” X 7” REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 6,000 LB. EA. @ GRD. REAR SPRINGS 8,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	190 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON 2000
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK - -BALANCE YELLOW

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TYPE "D" 66 PASSENGER ENGINE REAR

<u>GVWR</u>	29,800
<u>WHEELS</u>	10-STUD DISC – 22.5" X 7.5"
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16" STEEL
<u>FRONT AXLE</u>	10,800 LB.
<u>REAR AXLE</u>	19,000 LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5" X 5" FRT– 16.5" X 7" REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 5,400 LB. EA. @ GRD. REAR SPRINGS 9,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	190 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON 2000
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK - -BALANCE YELLOW

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TYPE “D” 72 PASSENGER ENGINE FRONT

<u>GVWR</u>	29,000
<u>WHEELS</u>	10-STUD DISC – 22.5” X 7.5”
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	12,000 LB.
<u>REAR AXLE</u>	17,000 LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5” X 5” FRT– 16.5” X 7” REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 6,000 LB. EA. @ GRD. REAR SPRINGS 8,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	190 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON 2000
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK -BALANCE YELLOW

MINIMUM SPECIFICATIONS FOR 2004 SCHOOL BUS CHASSIS
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TYPE "D" 72PASSENGER ENGINE REAR

<u>GVWR</u>	29,800
<u>WHEELS</u>	10-STUD DISC – 22.5" X 7.5"
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16" STEEL
<u>FRONT AXLE</u>	10,800 LB.
<u>REAR AXLE</u>	19,000 LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5" X 5" FRT– 16.5" X 7" REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 5,400 LB. EA. @ GRD. REAR SPRINGS 9,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	190 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON 2000
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK -BALANCE YELLOW

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TYPE “D” 78 PASSENGER ENGINE FRONT

<u>GVWR</u>	32,000
<u>WHEELS</u>	10-STUD DISC – 22.5” X 8.25”
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	13,000 LB.
<u>REAR AXLE</u>	19,000LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5” X 5” FRT– 16.5” X 7” REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 6,500 LB. EA. @ GRD. REAR SPRINGS 9,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	210 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON MD3060
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK -BALANCE YELLOW

MINIMUM SPECIFICATIONS FOR 2004 SCHOOL BUS CHASSIS
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TYPE “D” 78 PASSENGER ENGINE REAR

<u>GVWR</u>	31,000
<u>WHEELS</u>	10-STUD DISC – 22.5” X 7.5”
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	12,000 LB.
<u>REAR AXLE</u>	19,000 LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5” X 5” FRT– 16.5” X 7” REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 6,000 LB. EA. @ GRD. REAR SPRINGS 9,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	210 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON MD3060
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK -BALANCE YELLOW

MINIMUM SPECIFICATIONS FOR 2004 SCHOOL BUS CHASSIS
TO MEET REQUIREMENTS OF VIRGINIA STATE BOARD OF
EDUCATION

TYPE “D” 84 PASSENGER ENGINE FRONT

<u>GVWR</u>	32,000
<u>WHEELS</u>	10-STUD DISC – 22.5” X 8.25”
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	13,000 LB.
<u>REAR AXLE</u>	19,000LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5” X 5” FRT– 16.5” X 7” REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 6,500 LB. EA. @ GRD. REAR SPRINGS 9,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	210 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON MD3060
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK -BALANCE YELLOW

MINIMUM SPECIFICATIONS FOR 2004 SCHOOL BUS CHASSIS
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EDUCATION

TYPE “D” 84 PASSENGER ENGINE REAR

<u>GVWR</u>	31,000
<u>WHEELS</u>	10-STUD DISC – 22.5” X 8.25”
<u>TIRES</u>	11R22.5 – 14 PLY
<u>FRAME</u>	ONE PIECE SIDE MEMBER – FRONT TOW HOOKS
<u>STEERING</u>	POWER – MEETING VIRGINIA SPECIFICATIONS
<u>FRONT BUMPER</u>	3/16” STEEL
<u>FRONT AXLE</u>	12,000 LB.
<u>REAR AXLE</u>	19,000 LB.
<u>BRAKES</u>	FULL AIR– 13.2 CF COMP– 16.5” X 5” FRT– 16.5” X 7” REAR–AIR DRYER
<u>SUSPENSION</u>	FRT. SPRINGS 6,000 LB. EA. @ GRD. REAR SPRINGS 9,500 LB. EA. @ GRD. FRT. AND REAR SHOCK ABSORBERS
<u>ENGINE</u>	210 H.P. ELECTRONIC HAND THROTTLE ECM SET TO MAXIMUM OF 55 MPH
<u>TRANSMISSION</u>	ALLISON MD3060
<u>DRIVE SHAFT</u>	GUARDS ON ALL SHAFTS
<u>FUEL TANK</u>	60 GALLON
<u>AIR CLEANER</u>	DRY ELEMENT TYPE WITH RESTRICTION GAUGE
<u>OIL FILTER</u>	1-QT. PER MANUFACTURER
<u>BATTERY</u>	750CCA
<u>ALTERNATOR</u>	160AMP 4 GA. CHARGING AND GROUND CIRCUITS
<u>HORN</u>	PER FMVSS
<u>LIGHTS</u>	PER FMVSS AND DAYTIME RUNNING LIGHTS
<u>GAUGES</u>	SPEEDOMETER, TACHOMETER, FUEL, OIL PRESSURE, COOLANT TEMP. & VOLTMETER
<u>COLOR</u>	FRAME, WHEELS, BUMPER, RAILS AND LETTERING – BLACK - -BACK OF MIRRORS, NON GLOSS BLACK -BALANCE YELLOW